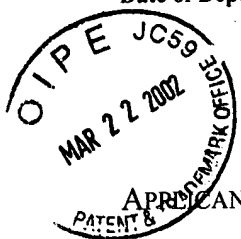


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Attorney Docket No. 22493-501 (SymbionT-1)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Kurtis et al.
SERIAL NUMBER: 10/008,340 EXAMINER: Not Yet Assigned
FILING DATE: November 13, 2001 ART UNIT: 1619
FOR: SUSTAINED BIOACTIVE AGENT DELIVERY DEVICE AND
METHODS OF MAKING AND USING THE SAME

Box IDS

Assistant Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Information Disclosure Statement (4 pages);
2. Modified Form 1449/PTO (2 pages), in duplicate;
3. Copies of cited references A1, C1-C22; and
4. Return postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at 617-542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any additional fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 22493-501 (SymbionT-1). A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor R. Elrifi
Ivor R. Elrifi, Reg. No. 39,529
Attorney for Applicant

Date: March 22, 2002

c/o MINTZ, LEVIN, COHN, FERRIS
GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
Tel: (617) 542-6000
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PATENT TRADEMARK OFFICE

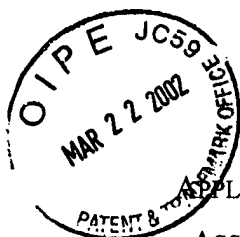
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Express Mail Label No.: EL752686671US

Date of Deposit: March 22, 2002

Attorney Docket No. 22493-1

(Sym)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Kurtis et al.

EXAMINER: Not Yet Assigned

ASSIGNEE: SymbionT

ART UNIT: 1619

SERIAL NUMBER: 10/008,340

FILING DATE: November 13, 2001

FOR: SUSTAINED BIOACTIVE AGENT DELIVERY DEVICE AND
METHODS OF MAKING AND USING THE SAME

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97, and 1.98, Applicant hereby makes of record the attached documents listed below and on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application. The order of presentation of the references should not be construed as an indication of the importance of the references. Reference C9 is in French, therefore, only the English summary is provided.

U.S. Patent Documents

6,020,144

Non Patent Literature Documents:

Fire, A. and Waterston, R.H. (1989) Proper expression of myosin genes in transgenic nematodes [published erratum appears in EMBO J 1989 Dec;8(13):4359]. *EMBO J.* 8, 3419-3428.

Robbins, P.D. *et al.* (1998) Viral vectors for gene therapy. *Trends In Biotechnology* 16, 35-40.

Pieroni, L. *et al.* (1998) Targeted integration of adeno-associated virus-derived plasmids in transfected human cells. *Virology* 249, 249-259.

Basch, P.F. and Rhine, W.D. (1983) *Schistosoma mansoni*: reproductive potential of male and female worms cultured in vitro. *J. Parasitol.* 69, 567-569.

Newport, G.R. and Weller, T.H. (1982) Miracidia infective for snails derived from eggs laid

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- by adult *Schistosoma mansoni* in vitro. *Parasitology* 84, 481-490.
- Kawanaka, M. *et al.* (1985) In vitro transformation of *Schistosoma japonicum* miracidia to young sporocysts in a culture system for egg maturation. *J. Parasitol.* 71, 368-370.
- Yoshino, T.P. and Laursen, J.R. (1995) Production of *Schistosoma mansoni* daughter sporocysts from mother sporocysts maintained in synxenic culture with *Biomphalaria glabrata* embryonic (Bge) cells. *J. Parasitol.* 81, 714-722.
- DiConza, J.J. and Hansen, E.L. (1972) Multiplication of transplanted *Schistosoma mansoni* daughter sporocysts. *J. Parasitol.* 58, 181-182.
- Jourdane, J. (1984) Maintenance of a male and a female clone of *Schistosoma mansoni* by microsurgical transplantation of sporocysts. Reliability of the method. [French]. *Annales de Parasitologie Humaine et Comparee* 59, 361-367.
- Cohen, L.M. and Eveland, L.K. (1984) *Schistosoma mansoni*: long-term maintenance of clones by microsurgical transplantation of sporocysts. *Exp. Parasitol.* 57, 15-19.
- Cohen, L.M. and Eveland, L.K. (1988) *Schistosoma mansoni*: characterization of clones maintained by the microsurgical transplantation of sporocysts. *J. Parasitol.* 74, 963-969.
- Purnell, R.E. (1966) Host-parasite relationships in schistosomiasis. II. The effects of age and sex on the infection of mice and hamsters with cercariae of *Schistosoma mansoni* and of hamsters with cercariae of *Schistosoma haematobium*. *Annals of Tropical Medicine & Parasitology* 60, 94-99.
- Davis, R.E. *et al.* (1999) Transient expression of DNA and RNA in parasitic helminths by using particle bombardment. *Proc. Natl. Acad. Sci. USA* 96, 8687-8692.
- Transfection of *Brugia Malayi*. Unnasch TR, Higazi TB, Merriweather A, and Davis, RE. Division of Geographic Medicine, University of Alabama at Birmingham, AL; and Biological Sciences, Fordham University. Abstract #203. American Society of Tropical Medicine and Hygiene, 49th Annual Meeting, Houston, TX.
- Abdeen, H.H. *et al.* (1999) Molecular cloning and characterization of the polypeptide backbone of *Schistosoma mansoni* circulating cathodic antigen. *Mol. Biochem. Parasitol.* 101, 149-159.
- Brady, C.P. *et al.* (1999) Recombinant expression and localization of *Schistosoma mansoni* cathepsin L1 support its role in the degradation of host hemoglobin. *Infect. Immun.* 67, 368-374.

APPLICANTS: Kurtis et al.
U.S.S.N.: 10/008,340

Dalton, J.P. *et al.* (1996) Characterization of the cathepsin-like cysteine proteinases of *Schistosoma mansoni*. *Infect. Immun.* 64, 1328-1334.

Khalife, J. *et al.* (1995) Transcriptional regulation of *Schistosoma mansoni* calreticulin: possible role of AP-1. *Parasitology* 111, 469-475.

Skelly, P.J. and Shoemaker, C.B. (1996) Rapid appearance and asymmetric distribution of glucose transporter SGTP4 at the apical surface of intramammalian-stage *Schistosoma mansoni*. *Proc. Natl. Acad. Sci. USA* 93, 3642-3646.

Grevelding, C.G. *et al.* (1997) Female-specific gene expression in *Schistosoma mansoni* is regulated by pairing. *Parasitology* 115, 635-640.

Giannini, A.L.M. *et al.* (1995) F-10 nuclear binding proteins of *Schistosoma mansoni*: structural and functional features. *Parasitology* 110, 155-161.

Rumjanek, F.D. (1989) Regulation of gene expression in the *Schistoma mansoni* female. *Mem. Inst. Oswaldo Cruz* 84, 197-198.

This Information Disclosure Statement is being filed more than three months after the filing date of this application but before the mailing date of either an office action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311. Accordingly, no fee is required as set forth in 37 C.F.R. §1.97.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Kurtis et al.
U.S.S.N.: 10/008,340

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested. Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311 (Reference No. 22493-501).

Respectfully submitted,

Date: March 22, 2002

Dr. Ivor R. Elrifi, Reg. No. 39,529
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Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/008,340
	Filing Date	11/13/01
	First Named Inventor	Kurtis
	Group Art Unit	1619
	Examiner Name	
	Attorney Docket Number	22493-501

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1	6,020,144		Symbiontics, Inc.			

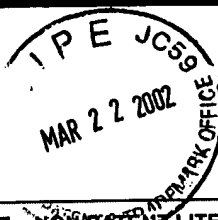
FOREIGN PATENT DOCUMENTS					
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	B1				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1	Fire, A. and Waterston, R.H. (1989) Proper expression of myosin genes in transgenic nematodes [published erratum appears in EMBO J 1989 Dec;8(13):4359]. <i>EMBO J</i> 8, 3419-3428. -
	C2	Robbins, P.D. et al. (1998) Viral vectors for gene therapy. <i>Trends In Biotechnology</i> 16, 35-40. -
	C3	Pieroni, L. et al. (1998) Targeted integration of adeno-associated virus-derived plasmids in transfected human cells. <i>Virology</i> 249, 249-259. ✓
	C4	Basch, P.F. and Rhine, W.D. (1983) Schistosoma mansoni: reproductive potential of male and female worms cultured in vitro. <i>J. Parasitol.</i> 69, 567-569.
	C5	Newport, G.R. and Weller, T.H. (1982) Miracidia infective for snails derived from eggs laid by adult Schistosoma mansoni in vitro. <i>Parasitology</i> 84, 481-490.
	C6	Kawanaka, M. et al. (1985) In vitro transformation of Schistosoma japonicum miracidia to young sporocysts in a culture system for egg maturation. <i>J. Parasitol.</i> 71, 368-370.
	C7	Yoshino, T.P. and Laursen, J.R. (1995) Production of Schistosoma mansoni daughter sporocysts from mother sporocysts maintained in synxenic culture with Biomphalaria glabrata embryonic (Bge) cells. <i>J. Parasitol.</i> 81, 714-722.
	C8	DiConza, J.J. and Hansen, E.L. (1972) Multiplication of transplanted Schistosoma mansoni daughter sporocysts. <i>J. Parasitol.</i> 58, 181-182.
	C9	Jourdane, J. (1984) Maintenance of a male and a female clone of Schistosoma mansoni by microsurgical transplantation of sporocysts. Reliability of the method. [French]. <i>Annales de Parasitologie Humaine et Comparee</i> 59, 361-367.
	C10	Cohen, L.M. and Eveland, L.K. (1984) Schistosoma mansoni: long-term maintenance of clones by microsurgical transplantation of sporocysts. <i>Exp. Parasitol.</i> 57, 15-19.
	C11	Cohen, L.M. and Eveland, L.K. (1988) Schistosoma mansoni: characterization of clones maintained by the microsurgical transplantation of sporocysts. <i>J. Parasitol.</i> 74, 963-969.
	C12	Purnell, R.E. (1966) Host-parasite relationships in schistosomiasis. II. The effects of age and sex on the infection of mice and hamsters with cercariae of Schistosoma mansoni and of hamsters with

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OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS

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Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
		cercariae of <i>Schistosoma haematobium</i> . <i>Annals of Tropical Medicine & Parasitology</i> 60, 94-99.
	C13	Davis, R.E. <i>et al.</i> (1999) Transient expression of DNA and RNA in parasitic helminths by using particle bombardment. <i>Proc. Natl. Acad. Sci., U S A</i> 96, 8687-8692.
	C14	Transfection of <i>Brugia Malayi</i> . Unnasch TR, Higazi TB, Merriweather A, and Davis, RE. Division of Geographic Medicine, University of Alabama at Birmingham, AL; and Biological Sciences, Fordham University. Abstract #203. American Society of Tropical Medicine and Hygiene, 49 th Annual Meeting, Houston, TX.
	C15	Abdeen, H.H. <i>et al.</i> (1999) Molecular cloning and characterization of the polypeptide backbone of <i>Schistosoma mansoni</i> circulating cathodic antigen. <i>Mol. Biochem. Parasitol.</i> 101, 149-159.
	C16	Brady, C.P. <i>et al.</i> (1999) Recombinant expression and localization of <i>Schistosoma mansoni</i> cathepsin L1 support its role in the degradation of host hemoglobin. <i>Infect. Immun.</i> 67, 368-374.
	C17	Dalton, J.P. <i>et al.</i> (1996) Characterization of the cathepsin-like cysteine proteinases of <i>Schistosoma mansoni</i> . <i>Infect. Immun.</i> 64, 1328-1334.
	C18	Khalife, J. <i>et al.</i> (1995) Transcriptional regulation of <i>Schistosoma mansoni</i> calreticulin: possible role of AP-1. <i>Parasitology</i> 111, 469-475.
	C19	Skelly, P.J. and Shoemaker, C.B. (1996) Rapid appearance and asymmetric distribution of glucose transporter SGTP4 at the apical surface of intramammalian-stage <i>Schistosoma mansoni</i> . <i>Proc. Natl. Acad. Sci. USA</i> 93, 3642-3646.
	C20	Grevelding, C.G. <i>et al.</i> (1997) Female-specific gene expression in <i>Schistosoma mansoni</i> is regulated by pairing. <i>Parasitology</i> 115, 635-640.
	C21	Giannini, A.L.M. <i>et al.</i> (1995) F-10 nuclear binding proteins of <i>Schistosoma mansoni</i> : structural and functional features. <i>Parasitology</i> 110, 155-161.
	C22	Rumjanek, F.D. (1989) Regulation of gene expression in the <i>Shistosoma mansoni</i> female. <i>Mem. Inst. Oswaldo Cruz</i> 84, 197-198.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.